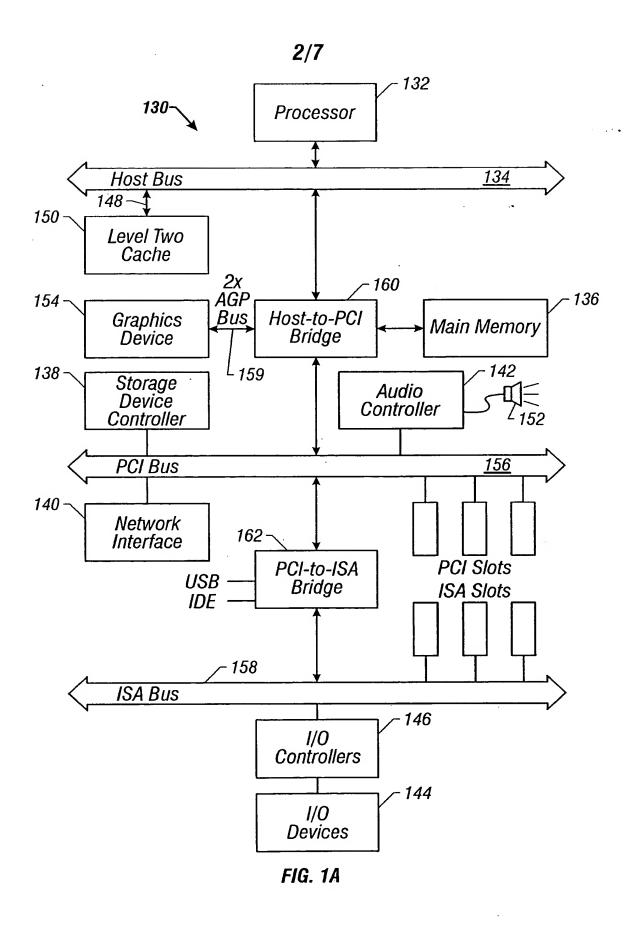


,



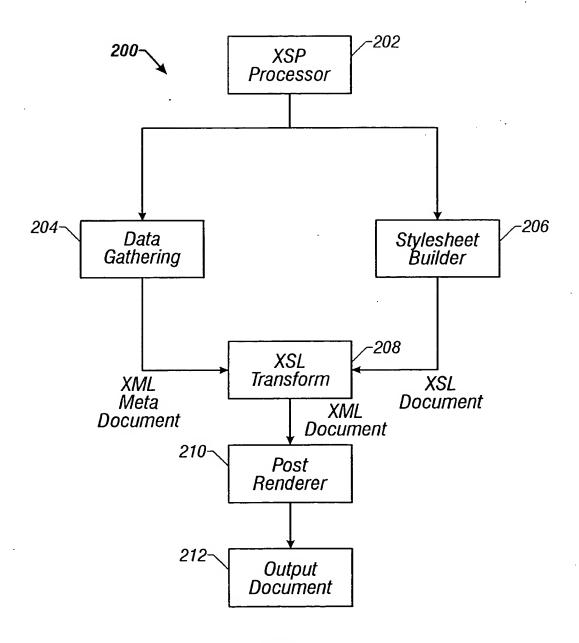


FIG. 2

```
FILE = inventors.xsp
302-
      <xsp: script base="inventor-base.xsp" xmlns:xsp="uri:xsp" xmlns:xsl="uri:xsl"</pre>
        xmlns:doc=uri:doc">
      <! - - This script extends inventor-base.xsp - ->
      <! - - Over-ride contents implementation in the base script - ->
           <xsp:sub name="contents">
                  <! - - Ask XSP to get the list of inventors as a server-side data island
                     and hold onto it for script lifetime - ->
                   <xsp:xml name="listofinventors" src="/xsp/data/inventors/xsp.xml" />
                  <! - - Use XSP to query the data island, with a query attribute to
                     retrieve only the inventors (not managers) - ->
                  <xsp: query src="#listofinventors" query="// inventors">
                         <! -- standard XSL root rule to start stylesheet processing or
                           this document fragment -->
                         <xsl:template match="/">
                               <!--XSL formatting statements go here-->
                         </xsl:template>
                         <!-- XSP to call base subroutine to import the default rules -->
                         <xsp:call href="#core-templates"/>
                        <!-- XSL again to provide a special template for an inventor,
                             outputting selected fields in the desired order -->
                         <xsl:template match="inventor">
                              <!-- XSL formatting statements go here-->
                         </xsl:template>
                  </xsp:query>
                  <!-- Use XSP to query the same data island a second time for
                       managers and not inventors -->
                  <xsp:query src="#listofinventors" query="//managers">
                        <xsl: template match="/">
                             <-- Put statements for standards XSL stylesheet</p>
                            processing for this portion of the document -->
                        <xsl:template>
                  </xsp:query>
             /xsp:sub>
      </xsp:script>
```

```
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```

```
FILE = inventor - base.xsp
402 ~
       <xsp:script xmlns:xsp="uri:xsp" xmlns:xsl="uri:xsl" xmlns:doc="uri:doc">
        <!-- Base script -->
        <!-- Default XSP entry point -->
            /<xsp:sub name ="main">
                    <!-- Insert any standardised output here --> <!-- Then call the contents routine>
                   ><xsp:call href="#contents"/>
     408 -
             </xsp:sub>
        <!-- Provide a default XSP contents routine -->
            <<sp:sub name="contents">
                     <!-- Ask XSP to guery the document -->
                     <xsp:guery src="/xsp/data/inventors/xsp.xml">
                          <!-- Now XSL begins - just provide a default rule -->
                          <xsl:template match="/"</pre>
                           </xsl:template>
                           <!-- Now call an XSP routine to import the default rules before
                              invoking XSL -->

<xsp:call href="#core-templates"
</pre>
                     </xsp:query>
      432 -
              </xsp:sub>
             <!-- This XSP routine provides two XSL default rules whenever needed -->
             <xsp:sub name-"core-templates">
                     <!-- output all text nodes as is -->
                     <xsl:template match="textNode()">
                           <xsl:value-of/>
                     </xsl:template>
                     <!-- ensure XSL recursion continues in the absence of better
                         matching rules -->
                     <xsl:template match="*">
                           <xsl:apply-templates />
                     </xsl:template>
              </xsp:sub>
        </xsp.script>
```

```
-500
FILE = xsp. xml
<?xml version="1.0" encoding="iso-8859-1"?>
<inventorlist>
     <managers>
           <manager role="dir">
                <name>Gordon Ballantyne</name>
                <title>Director of EMBA Online</title>
           </manager>
           <manager role="vp">
                <name>Maurice Cowey</name>
                <title>Vice President of HSB for EMBA</title>
           </manager>
     </managers>
     <inventors>
           <inventor ID="1001">
                <name>David Brooke</name>
                <title>Internet Development Manager</title>
                <SSN/WL 08 77 96 A </SSN>
                <region>EMEA</region>
                <br/>
<br/>
dgeno>64329</br/>
/badgeno>
           </inventor>
           <inventor ID="1002">
                <name>Steve Saxon</name>
                <title>Technical Architect</title>
                <SSN>NH 77 71 96 B</SSN>
                <region>EMEA</region>
                <bady>
<br/>
<br/>
dadgeno>103836</badgeno>
           </inventor>
     </inventors>
</inventorlist>
```

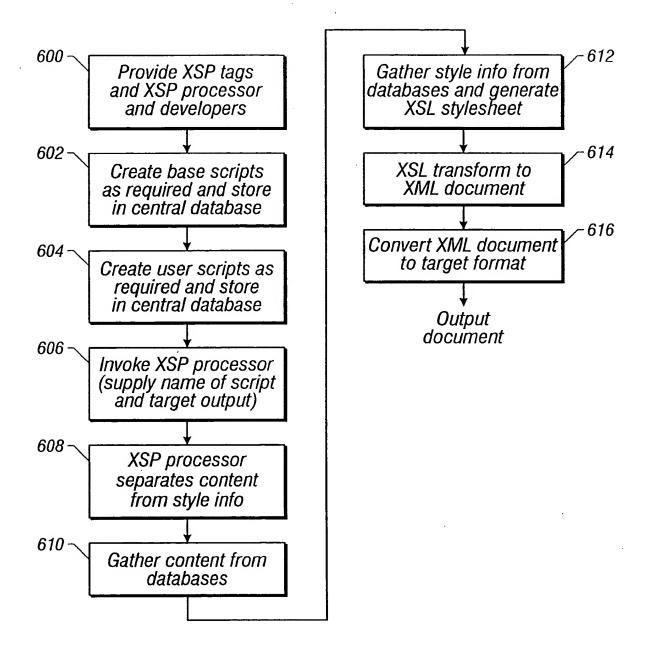


FIG. 6